Attorney Docket No. 032081

AMENDMENTS TO THE CLAIMS

Listing of claims:

This listing of claims replaces all prior versions and listings of claims in the

application.

1. (Currently Amended) A variable displacement compressor including a wobble body

that is arranged in a crank chamber formed gastight, such that an inclination angle of the wobble

body can be changed with respect to a rotating shaft, and is driven by rotation of the rotating

shaft, for wobbling motion, and pistons connected to the wobble body, for performing

reciprocating motion in a direction along axis in accordance with the wobbling motion of the

wobble body, to thereby suck refrigerant from a suction chamber into a cylinder, compress the

refrigerant, and deliver the compressed refrigerant from the cylinder to a discharge chamber, the

variable displacement compressor comprising:

a variable orifice arranged in a suction-side refrigerant passage leading to the suction

chamber or a discharge-side refrigerant passage leading to the discharge chamber, such that an

openness thereof can be set according to changes in external conditions;

a differential pressure regulating valve arranged at a desired location in at least one of a

first refrigerant passage leading from the discharge chamber to the crank chamber, and a second

refrigerant passage leading from the crank chamber to the suction chamber, for sensing a

2

differential pressure generated across the variable orifice and adjusting an openness thereof such

that the differential pressure becomes equal to a predetermined value; and

a fixed orifice arranged at a desired location in the first refrigerant passage and the second

refrigerant passage, wherein a flow rate of refrigerant flowing into the suction chamber or a flow

rate of the refrigerant discharged from the discharge chamber is caused to become substantially

constant.

2. (Withdrawn) The variable displacement compressor according to claim 1, wherein the

variable orifice is arranged in the suction-side refrigerant passage, the differential pressure

regulating valve being arranged in the first refrigerant passage, and the fixed orifice being

arranged in the second refrigerant passage.

3. (Original) The variable displacement compressor according to claim 1, wherein the

variable orifice is arranged in the discharge-side refrigerant passage, the differential

20 pressure regulating valve being arranged in the first refrigerant passage, and the fixed orifice

being arranged in the second refrigerant passage.

4. (Withdrawn) The variable displacement compressor according to claim 1, wherein the

variable orifice is an electromagnetic proportional flow rate control valve including a solenoid

enabling the predetermined value to be externally set by a current value.

3

Amendment Under 37 C.F.F. §1.111 Serial No. 10/700,462

Attorney Docket No. 032081

5. (Withdrawn) The variable displacement compressor according to claim 4, wherein the

electromagnetic proportional flow rate control valve is switched to a minimum operation in

which the flow rate of refrigerant is reduced substantially to zero by setting the current value

which can be externally set for the solenoid, to zero.

6. (Withdrawn) The variable displacement compressor according to claim 5, wherein the

variable displacement compressor is applied to a clutchless air conditioning system for an

automotive vehicle.

4